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Summary

My professional background includes over 15 years of experience in computer science, software engineering and architecture, designing and building complex IT systems, mentoring people. I have experience in developing products from scratch and working on enterprise-scale ones, in environments ranging from startups to industry-leading companies.

Products I worked on include online education platforms, massive-scale email security and spam protection systems, IT/network infrastructure, e-commerce platforms, ERP, CRM, CMS SaaS platforms, instant messaging services, machine learning-based analytics services, privacy-first data platforms, cloud platforms.

While doing this, I invented several novel, 5-years-ahead-of-the-industry, solutions.

I have also started and co-started a few startups: a social network, an instant messaging service, an ERP SaaS for the SMB market, a powerful personal GIS platform, a privacy-respecting data platform for the digital advertising industry. Currently I'm doing research for a new product: Objects-as-a-Service software development platform.

I had spoken at several conferences and meetups, created and contributed to many open-source projects. I also write a blog where I explain the most fundamental issues of software development.

Work experience

2021 .. 2022

Did consulting contracts with several companies in fintech, payments, gaming, e-commerce, SMB integrations segments. By applying my technological and remote work expertise achieved fast and sustainable business-wise results that helped the clients handle disruptions caused by the pandemics.

By combining and generalizing requirements and problems these different business domains are exposed to I Invented a new solution: [Objects as a Service](#) ([OaaS](#)) software development platform.

Did mentor on technology, business, strategy and personal development, spoke on meetups and conferences.

2019 .. 2020

Founder at [adferret](#) – a privacy-respecting hyper-scalable data platform for the digital advertising industry. Responsible for customer development, product development, hiring and more.

The product delivered a huge value for the b2b side, but distribution on the b2c side didn't go fast enough, so the product was discontinued at this time.

Did mentor at a Software Architects Club, spoke at several online events.

2016 .. 2019

Worked at [Beautiful Destinations](#), leading frontend, and later all the tech efforts in the company.

- Had built a fully remote highly-performant engineering team and workflow years before it became mainstream.

- Together with the team we had built a suite of SaaS applications for managing large-volume media sets. The suite makes use of computer vision-based ML/AI functionality, uses service-oriented architecture on the backend and a microservices-for-frontend architecture for the UI.

  This solution did achieve unique business advantages for the client, and is being used as a unique selling proposition.

- Built an on-premise data center with extra high connectivity for effective workflows with large media files (hundreds of terabytes).

The framework of the system we had developed for this project is now open-source and can be found at github.com/LubeckFRP.

Project role: Head of Engineering and R&D.

2012 .. 2015

Worked at [Evo](Evo) (a multinational online shopping and business services provider: prom.ua, [tiu.ru](tiu.ru), satu.kz, negociol.com, ticiz.com) as a team lead and an enterprise architect.

- Built an architecture team for solving the most important, system-wide, complicated problems.

- Grew a high-performing and business-oriented mindset in the team. Later all the team members, including QAs, were promoted to leading positions.

- Did mentor all the engineering teams in the company, established weekly internal meetups for knowledge sharing.

Led the team in the R&D process, with which we achieved several novel breakthrough solutions:

- a scalable microservices-for-frontend-based architecture for programmatically composable web applications and a multi-language module system for this architecture. These novel solutions provided the company with a few years of technological advantage over the rest of the industry.

- a language-agnostic build system. It is open-source now
  github.com/EugeneN/cafe

- a concatenative reactive programming language for scripting mash-up UI applications. It is open-source now.
  github.com/EugeneN/DNA.js

- an incremental bootloader for web applications, which loads and applies binary patches of the application's code. It is open-source now.
  github.com/EugeneN/vcdelta

- a prototype for the backend microservice architecture.

Project role: R&D Lead, Project Lead, Team Lead, Enterprise Architect, mentor.

2010 .. 2011

Worked on a couple of large enterprise projects at SoftServe and Cisco:

Led a backend team, later worked directly with the customer's in-house California-based team as an outstaff team member.

Customer: Pearson.
Project role: Back-end Team Lead, Software Architect, Software Developer.

- Led a backend team which delivered ahead of the plan a set of RESTful services in a large real-time platform for online testing in an online education system.

- Developed a custom dialect for Python's SQLAlchemy library for MS SQL Server 2000, which was a critical point for success of the whole project.

- Was involved in architecture assessments and proposals for a few other related projects.

Customer: Cisco Systems, Inc.
Project role: Software Architect, Software Developer.

- Worked on parts of Cisco IronPort Email and Web Security Appliances. It is a

massive microservices-based system for scanning and categorizing global email and web traffic in real time at the global scale.

- Designed from scratch and implemented an LDAP-based administration tool for managing IT infrastructure. This tool features a rich web client application and an API-driven server service.

- Provided unique set of expertise for the client, who spent half a year looking to close this position.

2009 .. 2010

Co-founder of [G4](#) startup. The company had developed a SaaS product for managing geospatial data (GPS tracks, points, geotagged items, custom maps). The product achieved unprecedented functionality, and many of its features are not surpassed even today.

The application features real-time data categorization and clustering, real-time push-based internal API, external RESTful API, spatial search, uses advanced HTML5 features like drag-and-drop multi-file upload, sound effects, interactive SVG charting.

Was responsible for customer development, product development, team hiring and management, and more.

Project role: Co-founder/CEO.

2007 .. 2008

Founder at a privately-owned company that had developed a SaaS ERP platform for small businesses. The platform provides a set of standalone services for managing finances, goods, employees, business documentation.

The platform achieved several technological and business brake-throughs:

- Single sign-in capability with sophisticated hierarchical access control rules. This enabled investors, the board and top managers to control and account

for financial flows across multiple companies at once.

- An immutable, append-only, replicated, control sum-checked database. This rendered business data loss of corruption impossible by design.

- An audit log with the ability to roll back any changes. This functionality rendered deliberate fraud impossible, and was used several times to detect and correct it.

- Multi-language UI enabled the client to operate the software in many different countries.

Was responsible for product development, team hiring and management, and more.

Project role: Founder/CEO, Enterprise Architect.

2005 .. 2006

Co-founded an instant messaging service Jabber.te.ua. The product was very successful due to many unique and powerful features:

- interoperability with email, SMS and other IM services,

- chat bots support,

- server-side history service, a unique feature for distributed federated/peer-to-peer systems.

- The messaging service also was used for monitoring, metrics collection and remote management of server farms and IoT devices.

Project role: Co-founder/CTO, Solution Architect.

2004 .. 2005

Co-founded a social network for students. It was a web site integrated with an instant messaging service and automated chat bots. The service was hugely popular among students across several universities.

Was responsible for product development, community management, investors relations and more.

Project role: Co-founder/CTO, Enterprise Architect.

2004 .. 2006

Worked as a software engineer at the Computer Department of Ternopil National Technical Academy.

- Developed a complex software platform for the university's network infrastructure and identity management based on LDAP, with a Kerberos-like ticket-based authentication and authorization system on top of the XMPP protocol.

- Developed a high-load email security and spam protection system and a distributed monitoring service on top of the XMPP protocol.

Project role: Enterprise Architect, IT architect, Project Manager.

Education

1999 .. 2005

Ternopil National Technical University
Bachelor's degree with honors in Computer Automation.
Specialist's degree with honors in Computer Automation.
Master's degree with honors in Computer Automation.